

Amendments to the Claims

The following listing of claims replaces all prior versions and listings of claims in the present application:

1. (Currently Amended) A wind power generation device comprising:

a substantially cylindrical duct;
an impeller having a plurality of blades protruding outward,
said impeller being [and] rotatable around a duct axis; and
a nacelle that constitutes a streamlined pencil body
together with said [the] impeller and houses a generator that
uses torque of said [the] impeller,

wherein said [characterized in that a] duct has a side wall
with a wing-shaped cross section, said side wall having no holes
therein, [wing section]} so as to be able to produce a reduced
pressure area at a rear of said [the] duct and prevent generation
of swirl at the rear of said [the] duct,

wherein said [the] pencil body is provided such [so] that a
[tip] forward end thereof is [placed in the] disposed inside of
said duct and a rear end thereof protrudes outwardly from a rear
end of said [the] duct, so as to be close to a tip of the reduced
pressure area produced at the rear of said [the] duct, and

wherein blades of said [the] impeller are provided in a
maximum wind speed area in said [the] duct.

2. (Currently Amended) The wind power generation device according to claim 1, {characterized in that} wherein a chord of {the wing section} said wing-shaped cross section of said {the} side wall of said {the} duct is inclined at a predetermined angle to the duct axis, and wherein a protruding length of the rear end of said {the} pencil body from the rear of said {the} duct is adjusted according to a position of the tip of said {the} reduced pressure area, which {that} changes depending on said {the} predetermined angle.

3. (Currently Amended) The wind power generation device according to claim 2, {characterized in that the} wherein said predetermined angle is 2° to 12° , and the protruding length of said {the} pencil body from the rear of said {the} duct is {set to} 0.1 to 0.4 times {the duct} a length of said duct.

4. (Currently Amended) The wind power generation device according to claim 1, {characterized in that the} wherein said blades of said {the} impeller are provided within a range of 0.07 times {the duct} a length of said duct in a forward direction, and 0.18 times the {duct} length of said duct in a rearward direction, with respect to a minimum inner diameter portion of said {the} duct.

5. (Currently Amended) The wind power generation device according to claim 2, {characterized in that the} wherein said blades of said {the} impeller are provided within a range of 0.07

times {the duct} a length of said duct in a forward direction, and 0.18 times the {duct} length of said duct in a rearward direction, with respect to a minimum inner diameter portion of said {the} duct.

6. (Currently Amended) The wind power generation device according to claim 3, ~~{characterized in that the}~~ wherein said blades of said {the} impeller are provided within a range of 0.07 times the {duct} length of said duct in a forward direction, and 0.18 times the {duct} length of said duct in a rearward direction, with respect to a minimum inner diameter portion of said {the} duct.

7. (New) The wind power generation device according to claim 2, wherein said predetermined angle is inclined at a positive angle such that a leading edge of said chord at the front end of said duct is separated a greater distance from said duct axis than a trailing edge of said chord at the rear end of said duct.